

Press Release

for Immediate Release

June 14, 2017

Quantachrome Instruments Announces the Release of the New **AutoFlow BET+**™ Dynamic Flow Surface Area Analyzer

SUMMARY

The **AutoFlow BET+** provides extremely fast and high throughput BET surface area analyses in both single-point and multipoint BET modes. Its modular design includes a control module with three degas stations and one, two or three independent analysis modules. Full automation, high precision MEMS-TCDs and independent MFCs, and no need for calibration injections or loops, make this system ideal for fast-paced industrial and R&D laboratories.

INDUSTRIES

- Pharmaceutical
- Powder Metals
- Carbon Black
- Silica/Alumina
- Food
- Batteries
- Catalysts
- Activated Carbons
- Polymers
- Minerals
- Cement
- Ceramics

KEY WORDS

- Dynamic flow
- Fast BET Analysis
- High Throughput
- Single Point BET
- Multipoint BET
- Statistical Thickness Area (STSA)
- Micropore Volume
- Surface Area

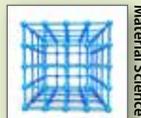
INTRODUCTION

BET surface area analysis is a well-established and essential technique for quality control and R&D analyses of solid materials. The **AutoFlow BET+**™ extends Quantachrome's range of pertinent product offerings to provide users with exceptionally fast and high throughput BET surface area capabilities. Thanks to its unique MEMS-TCD sensor design, its built-in mass flow controllers, its dedicated pressure transducers, its parallel multi-path analysis stations, and its smart and adaptable **FlowWin**™ software, the **AutoFlow BET+**™ can yield BET surface area results in less than 5 minutes per individual degassed sample per station, or up to 36 analysis results per hour.



Its unique combination of high speed per analysis station and simultaneous operation of independent analysis modules in parallel make the **AutoFlow BET+**™ the best choice for laboratories where simple, fast and reliable surface area analyses are required.

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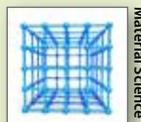
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New **AutoFlow BET+**TM Dynamic Flow Surface Area Analyzer

KEY FEATURES

- Extremely fast and high throughput dynamic flow BET surface area analyzer.
- Fully automated modular design with one, two, or three independent analysis stations.
- Single-point BET analyses in < 5 minutes per sample.
- Three single-point BET analyses in 5 minutes on a three-station model.
- Multipoint BET analyses in < 15 minutes per sample.
- Three multipoint BET analyses in 15 minutes on a three-station model.
- Statistical thickness surface area (STSA) determination via customizable t-Plot method.
- Three independently programmable (multi-step) sample preparation stations.
- Menu-driven, easy-to-use software allows the user to collect, display, analyze, and archive data.
- Interface between **AutoFlow BET+**TM and mobile devices or PC allows remote access to its functions and data.
- Multiple (up to 4) **AutoFlow BET+**TM units (up to 12 analysis stations in total) can be controlled by a single PC.
- Each control module includes a touchscreen interface and a USB port for optional data storage.
- Ergonomic design with protective shielding doors for added safety.
- Quiet; unlike traditional surface area analyzers the Autoflow does not employ any vacuum pumps.

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